

CLAIMS

1. System for networking aeronautical equipment on board an aircraft characterized in that it comprises, for each equipment item, an object-oriented interface (1, 2; 3, 4) with object aspect means (1, 3), enabling it to recognize the onboard equipment to which it is assigned, as an object, in the object-oriented programming sense, capable of communicating with other objects in the object-oriented programming sense according to an object-oriented client/server model and with observer means (2, 4) recording the events resulting from operation of the equipment.
2. System according to Claim 1, characterized in that an object-oriented interface (1, 2; 3, 4) comprises an object aspect (1, 3) provided with subscription-based communication services.
3. System according to Claim 1, characterized in that the object-oriented interfaces (1, 2; 3, 4; 52, 53) comply with a multi-vendor distributed applications protocol.
4. System according to Claim 1, characterized in that the object-oriented interfaces (1, 2; 3, 4; 52, 53) comply with the CORBA standard devised by the "Object Management Group".
5. System according to Claim 1, characterized in that the object-oriented interfaces (1, 2; 3, 4; 52, 53) comply with the Java Remote Method Invocation protocol devised by Sun Microsystems, Java being a registered trademark of the latter company.
6. System according to Claim 1, characterized in that the object-oriented interfaces (1, 2; 3, 4; 52,

53) comply with the Simple Object Access Protocol devised by the "World Wide Web Consortium".

- 5 7. System according to Claim 1, characterized in that the object-oriented interfaces (1, 2; 3, 4) intercommunicate via an object in the object-oriented programming sense, called an adapter object (9, 9'), provided with means of adapting the format of the messages and events generated by the object-oriented interfaces so that they can be understood by the recipient object-oriented interface.
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- 15 8. System according to Claim 7, characterized in that it includes a configuration object (15, 15') recognizing all the objects, in the object-oriented programming sense, of the network and all the services, and handling the creation of the adapter objects (9, 9').
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9. System according to Claim 7, characterized in that an adapter object (9, 9') complies with the CORBA standard devised by the "Object Management Group".
- 25 10. System according to Claim 7, characterized in that an adapter object (9, 9') complies with the Java Remote Method Invocation protocol devised by Sun Microsystems, Java being a registered trademark of the latter company.
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11. System according to Claim 7, characterized in that an adapter object (9, 9') complies with the Simple Object Access Protocol devised by the "World Wide Web Consortium".
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12. System according to Claim 1, used in an avionics system comprising a dedicated aeronautical bus (51), characterized in that the object-oriented

interfaces (52, 53) are connected to their assigned equipment items via the dedicated aeronautical bus (51).

5 13. System according to Claim 1, used in an avionics system comprising a dedicated aeronautical bus (51), characterized in that the object-oriented interfaces (1, 2; 52, 53) intercommunicate via the dedicated aeronautical bus (51).

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14. System according to Claim 1, characterized in that one of the aeronautical equipment items is an air traffic collision avoidance system TCAS and another aeronautical equipment item is a flight

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computer FMS.